

**EPOVIA OPTIMUM® KRF 1001  
Resin Epoxy Vinylester Bisphenol A**

Version : November 2008

**CURED RESIN PROPERTIES NON REINFORCED**  
(Average values)**APPEARANCE**

- Limpid liquid resin.

**MAIN RESIN CHARACTERISTICS**

- Resin Epoxy Vinylester Bisphenol A
- Medium viscosity / Medium reactivity
- Low color
- Controlled exothermy

**MOULDING INFORMATION**

- Hand lay up - Spray up
- Filament winding / Pultrusion

**MAIN APPLICATION**

- Industrial applications anti-corrosion
- Pipes, tanks, containers, floor coverings

**LIQUID RESIN PROPERTIES**

Specific weight at 25°C	: 1.05 - 1.10 g/cm <sup>3</sup>
Brookfield Viscosity RVT at 23°C	
M3V50	: 400 - 500 MdPa.s
Solid content	: 56 - 60 %
Reactivity :	
- Method	: VE R200
- Test temperature	: 23°C
- Catalyst system	: 0.5 % NL-23 : 1.5 % MEKP 8.5 % : of oxygenate active : Butanox LPT or K12
- Resin quantity	: 100 g
- Gel time	: 10 - 20 min
- Peak time	: 10 - 20 min
- Temperature at peak	: 145-165°C

**Mechanical properties**

- hardness Barcol : 40

After cure of (2 hours at 80°C) and (1 hour at 120°C)

**Tensile ISO 527 :**

- Breaking stress : 85 Mpa
- Tensile strength : 3960 Mpa
- Deformation of the rupture : 4 %

**Flexural ISO 178 :**

- Breaking stress : 148 MPa
- Flexural modulus : 3570 MPa

**Thermomechanical properties**

- HDT ISO 75-2 A : 101°C

**SHELF LIFE**

Use within shelf life specified on the container. Store in the shade out of direct sunlight below 25 °C Containers sealed

**SAFETY PRECAUTIONS FOR HANDLING AND STORAGE**

- Polyester solutions contain volatile and flammable monomers such as styrene (flash point : 32°C).
- They are subject to the Highly Flammable Liquids and Liquid Petroleum Gases Regulations 1972.
- All polyester resins should be handled and used in well ventilated, flame proof areas.
- It is preferable to wear gloves and goggles to guard against any skin/eye irritation arising from the presence of styrene. Under no circumstances must accelerators be mixed with peroxide catalysts as it can cause explosions.

This data sheet was established according to NF T 50-063